## AIRPLANE QUESTIONNAIRE

| Name:  | Grade: CAPID:                                  |
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| Unit:  | Date: 3/1/2007                                 |
| Check Pilot: OHWG/DO   | Grade: CAPID:                                  |
| Score: Type/Model Aircraft: N354CP C1827   | Γ NAVIII G1000                                 |
| Complete this open book questionnaire using the <i>Flight Manua</i> part of a question is not applicable, write in NA. The check pil Minimum passing score is 80%. The completed questionnaire | lot will review and grade the questionnaire.   |
| 1. Approved fuel grades and colors are: 100LL Blue, 100 C  | Green  |
| 2. Location/capacity of each fuel tank is: Wings, 46 gal/sig   | de, 92 gal total                               |
| 3. Total usable fuel under all flight conditions is 87   | gallons.                                       |
| 4. Endurance at 75% power, 7,500-foot MSL, with a 45-minutes.  | ute reserve is 5.76 hours.                     |
| 5. What make and grade oil is used? Winter: Exxon E  | Elite 20W50 Summer: Exxon Elite 20W50          |
| 6. Oil capacity is 9 quarts. Minimum oil quantit   | ty for take off is 4 quarts.                   |
| 7. Minimum oil pressure is 20 psi. Maximum o   | oil pressure is115                             |
| 8. Maximum oil temperature is 245 degrees (F or C)   | <u>F</u> .                                     |
| 9. Magnetos are checked at1800 RPM. RPM drop she   | ould not exceed 175 RPM on                     |
| either magneto or50 RPM differential between   | magnetos.                                      |
| 10. Maximum RPM and MP for takeoff are 2450 and  | 29 in/Hg.                                      |
| 11. Maximum gross takeoff weight is 3100 pour  | nds. Empty weight is 2073.8 pounds.            |
| Useful load is 1036.2 pounds. Maximum landing we   | eight is 2950 pounds.                          |
| 12. Baggage compartment locations/weights are: A- 120 lb,  | B - 80 lb, C - 80 lb, ABC 200 lb max, BC 80 lb |
| 13. Give the IAS at maximum gross weight for:  |  |
| a. Va (maneuvering speed). 110 e.  | Vx (best angle of climb, sea level). 65        |
| b. Vso (stall, landing config, power. off). 40 f.  | Vmc (minimum control speed – multi- N/A        |
| c. Vs1 (stall, cruise config, power. off). 50  | engine only).                                  |
| d. Vy (best rate of climb, sea level). 80 g.   | Best glide speed. 75                           |
| 14. Give the immediate action/memory items for:  |  |
| a. Engine failure immediately after takeoff. Airspeed 75 KIAS-Flaps up, 70 KIAS-Flaps down/AR, Mixtur OFF, Stby Batt Sw-OFF, Master Sw (ALT&BAT)-OFF, Cabin                                    |  |
| b. Fire during cranking and engine fails to start. Throttle-FULL OPEN, Mixture-IDLE CUTOFF, Magnetos-ST Pump-OFF, Magneto-OFF, Stby Batt S-OFF, Master (ALT&E                                  |  |
| c. Engine fire in flight.  Mixture-IDLE CUTOFF, Fuel Selector-OFF, Fuel Pump-OFF, overhead vent, Airspeed-100KIAS to higher to extinguish, Ford  |  |
| d. Electrical fire in flight.  Stby Batt sw-OFF, Master sw (ALT&BAT)-OFF, Vent & Cabi Avionics Sw (Bus 1 & Bus 2-OFF, All other switches except m  |  |

| Airplane Questionnaire (Continued)  |  |
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| 15. Normal takeoff flap setting is $0-10$ , short field takeoff setting is $20$ , and soft field takeoff flap setting is $20$ .                     |  |
| 16. Maximum demonstrated takeoff/landing crosswind component is 15 knots.   |  |
| 17. Given: PA = 4,000 feet; Temp = 86° F; Runway 27; Wind 320° at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight. |  |
| Find: Total takeoff distance to clear a 50-foot obstacle: 2264  |  |
| 18. Given: PA = 6,000 feet; Temp = 68° F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.                        |  |
| Find: Total landing distance to clear a 50-foot obstacle: 1615  |  |
| 19. Landing runway 22; wind 190o at 22 gusting to 30 knots. Will the maximum demonstrated crosswind   |  |
| component for this aircraft be exceeded? No   |  |